

WSDOT Fish Passage Barriers Invenioried as of March 2006

Site Id	WSDOT District	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	Fishway attached to the Feature	% Fish Pass	Significant Reach (>200 m)	Culvert No.	Shape	Material	Span (m)	Rise (m)	Length (m)	Bed Material Present	Water Surface Difference Drop (m)	Road Fill Depth (m)
991789	Southwest	503SP COU	33.54	Unamed	Lewis R	27	Culvert	No	0	No	4.2	1.1 RND	PCC	1.22	1.22	50.29	Unk	0.30	20.00
991790	Southwest	503SP COU	34.09	Unamed	Yale Lk	27	Culvert	No	0	Yes	3.91	1.1 RND	PCC	1.22	1.22	30.48	Unk	1.83	12.00
991791	Southwest	503SP COU	35.20	Unamed	Yale Lk	27	Culvert	No	0	Yes	4.41	1.1 RND	PCC	1.22	1.22	32.00	Unk	1.83	3.00
994603	Southwest	503SP COU	35.58	Unamed	Yale Lk	27	Culvert	No	0	Yes	2.87	1.1 RND	PCC	0.76	0.76	40.15	No	0.00	6.03
991571	Southwest	503SP COU	35.69	Unamed	Dog Cr	27	Culvert	No	0	Yes	4.66	1.1 BOX	TMB	2.44	2.44	50.73	No	1.40	11.60
990120	Southwest	503SP COU	35.84	Dog Cr	Yale Reservoir	27.0476	Culvert	No	0	Yes	67	2.2 BOX	CPC	3.05	3.05	20.58	No	0.00	0.00
994599	Southwest	503SP COU	37.06	Panamaker Cr	Yale Reservoir	27.0478	Culvert	No	67	Yes	67	1.2 BOX	CPC	3.05	3.05	20.58	No	0.00	0.00
994599	Southwest	503SP COU	37.06	Panamaker Cr	Yale Reservoir	27.0478	Culvert	No	67	Yes	67	1.2 BOX	CPC	3.05	3.05	20.58	No	0.00	0.00
990078	Southwest	503SP COU	38.77	Dry Cr	Lewis R	27.0481	Culvert	No	0	Yes	67	1.1 BOX	PCC	2.44	2.44	27.74	Unk	0.00	3.00
995866	Southwest	I-205	32.28	Unamed	Curtin Cr	28	Culvert	No	0	Unknown		1.1 RND	CST	1.07	1.07	67.54	No	0.38	1.70
997193	Southwest	I-205	35.18	Unamed	Unamed	28.0050	Culvert	No	0	Yes	67	1.1 RND	CST	1.07	1.07	173.85	No	0.90	0.83
995862	Southwest	I-205	35.83	Unamed	Salmon Cr	28	Culvert	No	67	Yes		1.1 RND	CST	0.76	0.76	136.57	No	0.00	0.48
990085	Southwest	I-205 Exit 2	3.31	Cold Cr	Burnt Bridge Cr	28.0144	Culvert	No	0	Yes	18.56	1.1 RND	OTH	1.20	1.20	71.33	No	1.60	3.00
994304	Southwest	I-5	5.98	Unamed	Salmon Cr	28	Culvert	No	67	Yes	3.67	1.1 RND	PCC	1.07	1.07	106.91	No	0.00	0.29
994306	Southwest	I-5	6.10	Unamed	Salmon Cr	28	Culvert	No	67	Yes	3.7	1.1 RND	PCC	1.07	1.07	109.55	No	0.15	0.83
991793	Southwest	I-5	6.29	Unamed	Salmon Cr	28	Culvert	No	33	Yes	4.56	1.1 RND	PCC	1.07	1.07	31.71	No	0.55	0.85
991792	Southwest	I-5	7.92	Unamed	Whipple Cr	28.0050	Culvert	No	67	Yes	6.46	1.1 RND	PCC	0.91	0.91	111.76	No	0.00	2.18
991794	Southwest	I-5	8.07	Unamed	Whipple Cr	28	Culvert	No	0	Yes	11.06	1.1 RND	PCC	0.76	0.76	144.39	No	1.01	1.02
991794	Southwest	I-5	8.42	Whipple Cr	Lake R	28.0038	Culvert	No	67	Yes	16.91	1.1 BOX	PCC	1.83	1.83	213.36	Unk	0.00	3.00
991795	Southwest	I-5	8.68	Unamed	Whipple Cr	28	Culvert	No	0	Yes	5.49	1.1 RND	PCC	0.61	0.61	165.19	No	0.36	1.60
991796	Southwest	I-5	10.20	Unamed	Gee Cr	27.0168A	Culvert	No	33	Yes		1.1 RND	OTH	0.76	0.76	158.85	No	0.00	1.05
991868	Southwest	I-5	11.23	Unamed	Gee Cr	27.0168O	Culvert	No	0	No		1.1 RND	OTH	0.76	0.76	138.36	No	0.00	4.90
991844	Southwest	I-5	11.44	Unamed	Gee Cr	27.0168A	Culvert	No	67	Yes	12.44	1.1 BOX	CPC	1.22	1.22	36.90	No	0.00	0.01
991847	Southwest	I-5	12.42	Gee Cr	Columbia R	27.0168F	Culvert	No	67	Unknown		1.1 OTH	OTH	3.05	3.05	128.70	No	0.00	0.00
994588	Southwest	I-5	13.20	Unamed	Columbia R	27.0168F	Culvert	No	0	Yes	11.68	1.1 RND	CPC	1.82	1.82	68.08	No	0.35	1.61
990055	Southwest	I-5	25.85	Mill Cr	Columbia R	27.0144	Culvert	No	33	Yes	12.36	1.1 BOX	PCC	2.44	2.44	98.15	Unk	0.00	5.00
991665	Southwest	I-5	26.83	Bybee Cr	Columbia R	27.0142	Culvert	No	0	Yes	21.33	1.2 BOX	PCC	1.83	1.83	339.24	Unk	0.09	2.50
991665	Southwest	I-5	27.80	Schoolhouse Cr	Columbia R	27.0139	Culvert	No	0	Yes	21.33	2.2 RND	CST	1.83	1.83	339.24	Unk	0.09	2.50
991665	Southwest	I-5	27.80	Schoolhouse Cr	Columbia R	27.0139	Culvert	No	0	Yes	21.33	2.2 RND	CST	1.83	1.83	339.24	Unk	0.09	2.50
991436	Southwest	I-5	29.25	Unamed	Columbia R	27.0137O	Culvert	No	67	Yes	16.95	1.1 RND	CST	0.91	0.91	55.26	No	0.00	0.21
994591	Southwest	I-5	29.81	Unamed	Columbia R	27.0136	Culvert	No	33	No		1.1 OTH	OTH	0.91	0.91	149.38	No	0.00	2.16
998211	Southwest	I-5	36.67	Unamed	Unamed	26	Culvert	No	0	Yes		1.1 RND	PCC	0.91	0.91		Unk	0.00	
996199	Southwest	I-5	38.02	Unamed	Coweean R	26	Culvert	No	0	Yes		1.1 RND	PCC	0.76	0.76	137.28	No	0.00	4.50
992332	Southwest	I-5	41.62	King Cr	Cowlitz R	26.0127	Culvert	No	0	Yes	12.82	1.1 RND	SPS	1.60	1.60	186.00	Unk	0.00	15.00
992331	Southwest	I-5	42.29	Unamed	Unamed to Cowlitz R	26.0128	Culvert	No	33	Yes	9.44	1.1 RND	SST	0.90	0.90	147.50	No	0.00	
992581	Southwest	I-5	44.29	Unamed	Cowlitz R	26.0180	Culvert	No	0	Yes	5.7	1.1 RND	CST	0.90	0.90	151.98	No	0.00	1.00
992590	Southwest	I-5	46.77	Unamed	Cowlitz R	26.0186A	Culvert	No	67	Yes	9.77	1.1 RND	CST	1.55	1.55		No	0.00	2.00
992591	Southwest	I-5	47.49	Unamed	Salmon Cr (26.0187)	26	Culvert	No	33	Yes	5.05	1.1 BOX	CPC	1.25	1.25	136.75	No	0.00	0.71
992592	Southwest	I-5	47.88	Unamed	Salmon Cr	26.0188	Culvert	No	67	No		1.1 RND	CST	2.20	2.20		Unk	0.00	5.00
992602	Southwest	I-5	53.07	Unamed	Cowlitz R	26	Culvert	No	33	Yes	18.36	1.1 RND	PCC	1.05	1.05	90.83	No	0.27	0.09
992608	Southwest	I-5	53.90	Unamed	Cowlitz R	26	Culvert	No	0	Yes	9.65	1.1 RND	CST	0.90	0.90	260.00	No	0.00	4.50
992343	Southwest	I-5	54.40	Unamed	Cowlitz R	26	Culvert	No	0	No		1.1 RND	PCC	0.75	0.75	86.61	No	0.83	1.40
992355	Southwest	I-5	54.93	Unamed	Hill Cr to Cowlitz R	26	Culvert	No	0	Yes	1.43	1.1 RND	PCC	0.75	0.75	88.65	No	0.00	4.00
991734	Southwest	I-5	57.98	Unamed	Foster Cr	26.0476	Culvert	No	0	Yes	11.99	1.1 BOX	CPC	1.52	1.52	89.31	No	0.94	5.00

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WSDOT Fish Passage Barriers Invenioried as of March 2006

WSDOT District	Site ID	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	Fishway attached to the Feature	% Fish Pass	Significant Reach (>200 m)	Culvert No.	Shape	Material	Span (m)	Rise (m)	Length (m)	Bed Material Present	Water Surface Difference Drop (m)	Road Fill Depth (m)
Southwest	990152	I-5	58.63	Foster Cr	Cowlitz R	26.0475	Culvert	No	33	Yes	20.55	1.1 BOX	CPC	3.05	0.61	2.43	No	0.68	3.00
Southwest	995338	I-5	71.34	Unamed	Unamed	23	Culvert	No	67	Yes		1.1 RND	PCC		1.43	1.43	No	0.00	2.00
Southwest	994555	I-5 NB	25.20	Canyon Cr	Columbia R	27.0147	Culvert	No	0	No		1.1 RND	CST		1.43	1.43	No	0.90	7.00
Southwest	994553	I-5 NB	25.92	MILL Cr	Columbia R	27.0144	Culvert	No	33	Yes	14.96	1.1 BOX	CPC	1.83	1.37	1.83	No	0.00	3.81
Southwest	994628	I-5 NB	0.99	Unamed	Gee Cr	27.0168A	Culvert	No	67	Yes	12.34	1.1 RND	PCC	1.37	1.37	1.37	No	0.00	0.50
Southwest	994652	I-5 off ramp	11.00	Unamed	Gee Cr	27.0168A	Culvert	No	67	Yes	13.05	1.1 RND	PCC	1.22	1.22	1.22	No	0.00	0.48
Southwest	991039	I-5 SB	25.31	Canyon Cr	Columbia R	27.0147	Culvert	No	0	No		1.1 RND	CST	1.43	1.43	21.35	No	0.40	5.00
Southwest	27.0305	Nevala Rd	0.99	Ross Cr	NF Lewis R	27.0305	Culvert	Yes	33	Yes	13.28	1.1 BOX	CPC	1.83	1.52	1.52	Unk		
Southwest	991360	SR 103	13.30	Espy Sl	Willapa Bay	24.0743	Culvert	No	0	Yes	10.47	1.1 RND	CST	1.22	1.22	14.33	Unk	0.46	0.00
Southwest	991328	SR 103	19.84	Stackpole Sl	Willapa Bay	24.0749	Culvert	No	67	Yes	11.34	1.1 RND	CST	0.91	0.91	0.91	Unk	0.00	1.80
Southwest	991332	SR 105	1.86	Unamed	Willapa Bay	24.0749	Culvert	No	33	Yes	11.58	1.1 RND	PCC	0.90	0.90	0.90	No	0.00	2.10
Southwest	992437	SR 105	5.95	Unamed	Fredrickson Sl	24	Culvert	No	33	No		1.1 RND	PCC	0.75	0.75	18.77	No	0.00	2.98
Southwest	991366	SR 105	6.23	Unamed	Willapa Bay	24.0250	Culvert	No	33	Yes	12.68	1.1 RND	PCC	1.25	1.52	1.52	No	0.00	2.00
Southwest	992440	SR 105	7.31	Unamed	Willapa Bay	24	Culvert	No	33	No		1.1 RND	CST	0.75	0.75	37.91	No	0.00	3.00
Southwest	992447	SR 105	7.31	Unamed	Willapa Bay	24	Culvert	No	0	No		1.1 RND	CST	0.60	0.60	24.41	No	0.00	2.27
Southwest	993133	SR 105	20.12	Unamed	Willapa Bay	24.0002A	Culvert	No	0	No	1.82	1.1 RND	CST	0.60	0.60		Unk		1.40
Southwest	991280	SR 105	21.22	Pacific Co Drain Ditch	Pacific Ocean	24.0001	Culvert	No	33	Yes		3.3 RND	CST	1.52	1.52	49.86	Unk	0.00	2.00
Southwest	991280	SR 105	21.22	Pacific Co Drain Ditch	Pacific Ocean	24.0001	Culvert	No	33	Yes		2.3 RND	CST	1.44	1.44	46.70	Unk	0.00	2.00
Southwest	991280	SR 105	21.22	Pacific Co Drain Ditch	Pacific Ocean	24.0001	Culvert	No	33	Yes		1.3 RND	CST	1.48	1.48	43.52	Unk	0.00	0.07
Southwest	992234	SR 122	4.99	Unamed	Mayfield Lk	26	Culvert	No	0	Yes	17.54	1.1 RND	PCC	0.91	0.91	15.93	No	0.00	5.00
Southwest	992235	SR 122	5.84	Unamed	Mayfield Lk	26	Culvert	No	0	Yes	10.88	1.1 BOX	CPC	2.13	2.16	45.90	No	2.20	7.00
Southwest	991017	SR 123	2.28	Unamed	Ohanapocosh R	26	Culvert	No	0	No		1.2 RND	PCC	0.90	0.90	31.89	No	0.16	6.40
Southwest	991022	SR 123	3.36	Unamed	Ohanapocosh R	26	Culvert	No	33	Yes	2.55	2.2 RND	PCC	0.75	0.75	24.97	No	0.27	6.40
Southwest	991029	SR 123	6.06	Unamed	Ohanapocosh R	26	Culvert	No	33	Yes	2.55	1.2 RND	PCC	0.75	0.75	27.44	No	0.23	3.50
Southwest	991030	SR 123	6.35	Unamed	Ohanapocosh R	26	Culvert	No	33	No		1.1 RND	PCC	0.90	0.90		Unk	0.25	2.40
Southwest	991030	SR 123	6.35	Unamed	Ohanapocosh R	26	Culvert	No	33	Yes	1.41	1.2 RND	PCC	0.90	0.90	15.89	No	0.00	6.20
Southwest	997382	SR 14	4.80	Unamed	Columbia R	28	Culvert	No	67	Yes	1.41	2.2 RND	PCC	0.90	0.90	16.30	No	0.00	5.00
Southwest	997383	SR 14	4.96	Unamed	Columbia R	28	Culvert	No	33	Yes		1.1 RND	PCC	1.22	1.22	54.63	No	0.00	0.37
Southwest	997384	SR 14	5.23	Unamed	Columbia R	28	Culvert	No	33	No		1.1 RND	PCC	0.46	0.46	56.09	No	0.36	1.26
Southwest	993859	SR 14	5.27	Unamed	Unamed	28	Culvert	No	33	Yes		1.1 RND	PCC	0.61	0.61	52.00	No	0.00	1.30
Southwest	996895	SR 14	22.97	Unamed	Columbia R	28	Culvert	No	33	No		1.1 RND	PCC	0.46	0.46	52.03	No	0.12	2.80
Southwest	996896	SR 14	23.44	Unamed	Columbia R	28.0293	Culvert	No	0	No		1.1 BOX	CPC	1.22	1.25	24.05	No	0.66	5.00
Southwest	996898	SR 14	24.71	Unamed	Columbia R	28	Culvert	No	0	Yes		1.1 BOX	CPC	1.83	1.91	66.62	No	0.00	11.80
Southwest	996899	SR 14	24.83	Unamed	Columbia R	28	Culvert	No	0	No		1.1 ARCH	CPC	0.91	0.91	49.35	No	0.05	10.00
Southwest	996900	SR 14	26.00	Unamed	Columbia R	28	Culvert	No	0	No		1.1 RND	PCC	0.61	0.61	39.49	No	0.00	7.50
Southwest	990177	SR 14	36.03	Hardy Cr	Hardy Sl	28.0303A	Culvert	No	0	Unknown		1.1 BOX	PCC	0.61	0.61	42.34	No	0.00	8.00
Southwest	990341	SR 14	140.80	Pine Cr	Columbia R	31	Culvert	No	33	Yes		1.1 RND	SPS	3.05	3.05	23.16	Unk	0.16	5.00
Southwest	990341	SR 14	140.80	Pine Cr	Columbia R	31.0354	Culvert	No	0	Yes	34.25	4.4 RND	SPS	3.05	3.05	121.92	Unk	0.00	1.50
Southwest	990341	SR 14	140.80	Pine Cr	Columbia R	31.0354	Culvert	No	0	Yes	34.25	3.4 RND	SPS	3.05	3.05	73.00	No	0.45	1.50
Southwest	990341	SR 14	140.80	Pine Cr	Columbia R	31.0354	Culvert	No	0	Yes	34.25	2.4 RND	SPS	3.05	3.05	73.00	No	0.45	1.50
Southwest	995864	SR 14 Exit 5	5.43	Unamed	Unamed	28	Culvert	No	0	Yes	34.25	1.4 RND	SPS	3.05	3.05	73.00	No	0.45	1.50
Southwest	992848	SR 142	1.53	Unamed	Klickitat R	30	Culvert	No	0	No		1.1 RND	CST	0.61	0.61	128.81	No	0.02	3.50
														1.22	1.22	34.41	No	1.70	13.25
																			3.00

WSDOT Fish Passage Barriers Invented as of March 2006

WSDOT District	Site Id	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	Fishway attached to the Feature	% Fish Pass	Significant Reach (>200 m)	Culvert No.	Shape	Material	Span (m)	Rise (m)	Length (m)	Bed Material Present	Water Surface Difference Drop (m)	Road Fill Depth (m)
Southwest	992888	SR 142	8.66	Unamed	Klickitat R	30	Culvert	No	0	No		1.1 RND	CST	1.07	1.07	19.00	No	1.35	9.80
Southwest	992223	SR 142	13.40	Snyder Canyon Cr	Klickitat R	30.0018	Culvert	No	33	Yes	23.19	2.2 BOX	PCC	3.04	3.04	19.63	Yes	0.51	0.50
Southwest	992223	SR 142	13.40	Snyder Canyon Cr	Klickitat R	30.0018	Culvert	No	33	Yes	23.19	1.2 BOX	PCC	3.04	3.04	19.63	No	0.51	0.50
Southwest	992908	SR 142	14.66	Skookum Canyon Cr	Klickitat R	30.0024	Culvert	No	67	Unknown				1.83	1.83	11.49	Yes	0.00	1.24
Southwest	992919	SR 142	16.48	Unamed	Klickitat R	30	Culvert	No	0			1.1 RND	SPC	1.52	1.52	12.82	No	1.01	4.50
Southwest	30.0068	SR 142	20.20	Bowman Cr	L Klickitat R	30.0068	Culvert	Yes	33	Yes	32.35	1.1 BOX	CPC	3.52	3.05	20.06	Unk	0.00	2.00
Southwest	991629	SR 142	25.10	Smith-Mason Cr	Mill Cr	30.0090	Culvert	No	33	Yes	5.03	1.2 RND	CST	1.52	1.52	22.86	Unk	0.00	1.50
Southwest	990284	SR 142	25.32	Mill Cr	Little Klickitat R	30.0088	Culvert	No	67	Yes	6.19	1.1 RND	CST	2.02	2.02	18.28	No	1.30	5.40
Southwest	991342	SR 4	0.68	Roaring Cr Sl	Naselle R	24	Culvert	No	0	No		1.1 RND	CST	0.90	0.90	25.49	No	1.08	0.74
Southwest	992398	SR 4	2.10	Unamed	Naselle R	24	Culvert	No	0	No		1.1 RND	PCC	0.60	0.60	39.41	No	0.00	3.50
Southwest	991375	SR 4	3.80	Unamed	Naselle R	24.0575A	Culvert	No	67	Yes	11.93	1.1 RND	CST	0.75	0.75	23.40	No	0.00	0.85
Southwest	991372	SR 4	6.36	Unamed	Naselle R	24.0543A	Culvert	No	0	No		1.1 RND	PCC	0.60	0.60	28.47	No	0.09	1.50
Southwest	991346	SR 4	6.97	Unamed	Salmon Cr	24.0622	Culvert	No	0	Yes	17.63	1.1 RND	SST	0.90	0.90	36.29	No	0.05	2.34
Southwest	991347	SR 4	7.34	Unamed	Salmon Cr	24.0624	Culvert	No	67	Yes	13.57	1.1 RND	PCC	0.76	0.76	27.55	No	0.00	0.08
Southwest	992403	SR 4	7.59	Unamed	Salmon Cr	24	Culvert	No	67	Yes	13.14	2.2 RND	PCC	0.75	0.75	27.55	No	0.14	0.51
Southwest	992403	SR 4	7.59	Unamed	Salmon Cr	24	Culvert	No	67	Yes	13.14	1.2 RND	PCC	0.75	0.75	28.36	No	0.10	0.81
Southwest	992405	SR 4	8.21	Unamed	Salmon Cr	24	Culvert	No	33	Yes	13.66	1.1 RND	PCC	0.75	0.75	15.58	No	0.36	2.80
Southwest	991349	SR 4	8.42	Unamed	Salmon Cr	24	Culvert	No	0	No		1.1 RND	PCC	0.75	0.75	48.12	No	0.00	2.30
Southwest	991381	SR 4	8.73	Unamed	Salmon Cr	24.0620A	Culvert	No	0	Yes	9.38	1.1 RND	PCC	0.75	0.75	32.31	No	0.02	2.00
Southwest	993668	SR 4	13.00	Unamed	Seal Sl	25	Culvert	No	0	Unknown		1.1 RND	CAL	0.61	0.61	24.23	No	2.50	4.20
Southwest	990371	SR 4	13.70	Seal Cr	Grays River	25.0104	Culvert	No	0	Yes	28.5	1.1 BOX	PCC	1.37	1.37	15.94	No	0.00	-1.63
Southwest	991395	SR 4	16.50	Unamed	Grays R	25	Culvert	No	0	Unknown		1.1 RND	PCC	0.91	0.91	24.38	Unk	0.27	3.00
Southwest	991421	SR 4	18.80	Unamed	Grays R	25.0093A	Culvert	No	0	Unknown		1.1 RND	PCC	0.91	0.91	24.38	Unk	0.15	2.50
Southwest	991422	SR 4	30.40	Unamed	Steamboat Sl	25.0194A	Culvert	No	0	No		1.1 RND	PCC	1.22	1.22	28.04	Unk	0.37	2.50
Southwest	990818	SR 4	34.10	Unamed	Columbia R	25	Culvert	No	67	Unknown		1.1 RND	PCC	1.52	1.52		Unk		
Southwest	991407	SR 4	36.90	Unamed	Columbia R	25	Culvert	No	0	Unknown		1.1 RND	PCC	1.22	1.22	56.39	Unk	0.09	2.50
Southwest	992781	SR 401	0.76	Unamed	Columbia R	24	Culvert	No	0	Yes	6.95	1.1 RND	PCC	0.91	0.91	16.45	No	0.46	0.73
Southwest	991409	SR 401	0.84	Megler Cr	Columbia R	24.0049	Culvert	No	67	Yes	13.34	1.1 RND	CST	1.22	1.22	20.26	No	0.00	-0.05
Southwest	991411	SR 401	1.83	Unamed	Columbia R	24.0050	Culvert	No	67	Yes	13.53	1.1 ELL	CST	1.42	1.60	27.75	No	0.00	0.80
Southwest	991418	SR 401	4.33	Unamed	Columbia R	24	Culvert	No	0	Yes	5.65	1.2 RND	PCC	0.61	0.61	32.92	No	0.15	5.00
Southwest	991377	SR 401	5.56	Unamed	SF Naselle R	24.0584A	Culvert	No	0	Yes	17.32	2.2 RND	PCC	0.90	0.90	21.55	No	0.00	1.40
Southwest	991378	SR 401	5.56	Unamed	SF Naselle R	24.0584A	Culvert	No	0	Yes	17.32	2.2 RND	PCC	0.61	0.61	33.79	No	0.31	1.40
Southwest	992791	SR 401	6.03	Unamed	SF Naselle R	24	Culvert	No	33	Yes	5.3	1.1 RND	PCC	0.90	0.90	21.55	No	0.54	1.30
Southwest	991378	SR 401	6.03	Unamed	SF Naselle R	24.0584B	Culvert	No	0	Yes	7.66	1.1 RND	PCC	0.90	0.90	28.15	No	0.78	4.90
Southwest	992792	SR 401	6.13	Unamed	SF Naselle R	24	Culvert	No	33	Yes	6.92	1.1 RND	PCC	0.75	0.75	27.30	No	0.25	2.60
Southwest	992392	SR 401	9.18	Unamed	SF Naselle R	24	Culvert	No	0	Yes	6.83	1.1 RND	PCC	0.90	0.90	34.63	No	0.00	3.23
Southwest	994565	SR 401	9.18	Unamed	Unamed	24	Culvert	No	0	Yes	15.99	1.1 RND	PCC	0.61	0.61	12.53	No	0.00	5.60
Southwest	994565	SR 401	5.50	Unamed	Naselle R	24.0584	Culvert	No	0	Yes	15.75	1.1 RND	PCC	1.21	1.21	55.10	No	0.00	1.50
Southwest	994567	SR 401	5.50	SF Naselle R	SF Naselle R	24	Culvert	No	0	Yes	15.12	1.1 RND	PCC	0.61	0.61	11.00	No	0.32	3.00
Southwest	992762	SR 401	9.36	Unamed	Unamed to Cowlitz R	26	Culvert	No	0	Yes	10.52	1.1 RND	OTH	0.85	0.85	40.55	Unk	0.00	1.67
Southwest	992265	SR 411	9.36	Unamed	Cowlitz R	26	Culvert	No	67	Yes	11.38	1.1 RND	PCC	0.60	0.60	39.66	Unk	0.00	0.55
Southwest	991783	SR 500	9.78	Unamed	Lacamas Cr	28.0165	Culvert	No	33	Yes		1.1 RND	PCC	0.91	0.91	15.85	Unk	0.00	2.00
Southwest	981853	SR 501	6.17	Buckmire Sl	Lake R	28.0136	Culvert	No	67	Yes		1.1 RND	CST	1.22	1.22	106.73	No	0.00	4.00
Southwest	994514	SR 501	17.94	Unamed	Unamed to Gee Cr	27.0168D	Culvert	No	0	Yes		1.1 RND	PCC	0.76	0.76	47.68	No	1.40	2.56

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WSDOT Fish Passage Barriers Inventoried as of March 2006

Site Id	WSDOT District	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	Fishway attached to the Feature	% Fish Pass	Significant Reach (>200 m)	Culvert No.	Shape	Material	Span (m)	Rise (m)	Length (m)	Bed Material Present	Water Surface Difference (m)	Slope	Road Fill Depth (m)
991877	Southwest	SR 502	0.77	Unnamed	Gee Cr	27.0168A	Culvert	No	67	Yes	4.46	1.1 RND	PCC	0.91	0.91	18.61	No	0.00	1.40	1.00
991657	Southwest	SR 503	13.21	Unnamed	Rock Cr	27.0223	Culvert	No	33	Yes	18.88	1.1 SOSH	CST	2.11	2.11	32.92	No	0.30	1.00	1.50
991656	Southwest	SR 503	15.84	Rock Cr	Lewis R	27.0222	Culvert	No	33	Yes	27.45	2.2 RND	CST	1.22	1.22	42.83	No	0.00	0.00	4.00
991656	Southwest	SR 503	15.84	Rock Cr	Lewis R	27.0222	Culvert	No	33	Yes	27.45	1.2 BOX	PCC	2.15	2.15	2.15	Unk	0.00	0.00	4.00
990037	Southwest	SR 503	19.85	Unnamed	Bitter Cr	27.0372	Culvert	No	0	Yes	12.18	1.1 RND	CST	0.61	0.61	18.59	No	0.38	8.00	2.00
990073	Southwest	SR 503	25.36	Chelatchie Cr	Cedar Cr	27.0367	Culvert	No	67	Yes	14.88	1.1 SOSH	CST	1.25	0.85	12.14	No	0.00	1.90	1.00
990842	Southwest	SR 503	27.05	Unnamed	Cedar Cr	27.0373	Culvert	No	67	Yes	16.8	1.1 RND	CST	1.22	1.22	14.30	No	0.00	0.56	1.00
994531	Southwest	SR 503	33.04	Brooks Cr	Lewis R	27	Culvert	No	0	No	15.28	1.1 RND	CST	0.64	0.64	24.99	Unk	0.00	2.00	5.00
994532	Southwest	SR 503	33.28	Unnamed	Lewis R	27.0431	Culvert	No	33	Yes	4.18	1.1 BOX	CPC	1.52	1.86	33.91	No	0.00	4.95	5.00
994533	Southwest	SR 503	33.50	Unnamed	Unnamed to Brooks Cr	27.0432	Culvert	Yes	33	Yes	3.44	1.1 RND	PCC	0.91	0.91	31.50	No	0.90	6.57	4.00
994610	Southwest	SR 503	34.97	Unnamed	Lk Mervin	27.0428	Culvert	No	0	No	0	1.1 RND	PCC	0.61	0.61	57.17	No	0.00	6.90	10.00
994541	Southwest	SR 503	36.57	Unnamed	Rock Cr	27.0420	Culvert	No	0	Yes	0	1.1 RND	PCC	0.91	0.91	47.52	No	0.41	12.00	7.00
990322	Southwest	SR 503	37.79	Unnamed	Lewis R	27.0417	Culvert	No	0	No	0	1.1 RND	PCC	0.91	0.91	36.96	No	3.50	16.40	7.00
994545	Southwest	SR 503	38.17	Unnamed	Lewis R	27.0416	Culvert	No	0	Yes	3.48	1.1 RND	PCC	0.46	0.46	16.90	No	0.39	6.00	0.50
994546	Southwest	SR 503	38.65	Unnamed	Lewis R	27.0415	Culvert	No	0	Yes	4.84	1.1 BOX	CPC	0.91	0.91	27.10	No	0.76	6.00	5.00
994547	Southwest	SR 503	38.85	Indian Cr	Lewis R	27.0411	Culvert	No	0	No	0	1.1 BOX	CPC	1.85	1.85	31.89	No	0.10	4.00	5.00
994549	Southwest	SR 503	39.41	Unnamed	Jim Cr	27	Culvert	No	33	Yes	3.55	1.1 RND	PCC	0.61	0.61	32.59	No	0.00	7.55	6.00
994550	Southwest	SR 503	39.90	Day Cr	Lewis R	27.0409	Culvert	No	0	Yes	5	1.1 RND	PCC	0.75	0.75	23.60	No	0.20	9.00	4.00
990062	Southwest	SR 503	40.94	Cape Horn Cr	Lewis R	27.0401	Culvert	No	0	Yes	2.43	1.1 BOX	CPC	2.30	2.30	65.86	No	0.65	3.34	10.00
994558	Southwest	SR 503	41.10	Unnamed	Lk Mervin	27.0400	Culvert	No	0	Yes	6.34	1.1 RND	PCC	0.91	0.91	22.41	No	0.36	8.57	1.00
994557	Southwest	SR 503	42.11	Unnamed	Lk Mervin	27.0398	Culvert	No	0	Yes	3.15	1.1 RND	PCC	0.76	0.76	35.06	No	0.72	12.80	1.50
994560	Southwest	SR 503	42.93	Marble Cr	Lk Mervin	27.0396	Culvert	No	0	No	0	2.2 RND	CST	0.91	0.91	24.21	No	40.00	2.56	4.00
994582	Southwest	SR 503	43.93	Marble Cr	Lk Mervin	27.0396	Culvert	No	0	No	0	1.2 RND	CST	0.91	0.91	24.58	No	12.00	7.07	4.00
994583	Southwest	SR 503	44.34	Husky Cr	Lewis R	27.0359	Culvert	No	0	No	0	1.1 RND	PCC	1.22	1.22	1.00	No	15.00	0.00	1.00
990089	Southwest	SR 503	45.30	Unnamed	Lewis R	27	Culvert	No	0	No	0	1.1 RND	PCC	0.76	0.76	0.00	No	0.30	0.00	5.00
990089	Southwest	SR 503	46.17	Colvin Cr	Lewis R	27.0392	Culvert	No	0	Yes	15.52	1.1 RND	SPS	1.83	1.83	76.20	No	0.40	3.50	16.00
991439	Southwest	SR 503	46.55	Davis Cr	Lewis R	27.0338	Culvert	No	0	Yes	3.53	1.1 RND	PCC	1.37	1.37	51.82	No	0.17	5.00	10.00
994623	Southwest	SR 503	48.19	Unnamed	Houghton Cr	27	Culvert	No	33	No	0	1.1 RND	CST	0.61	0.61	42.01	No	0.00	4.00	2.00
991440	Southwest	SR 503	49.03	Kanyon Cr	NF Lewis R	27.0315	Culvert	Yes	33	Yes	24.07	1.1 BOX	PCC	2.44	2.44	47.53	Unk	1.31	2.00	5.00
994625	Southwest	SR 503	49.49	Staples Cr	Lewis R	27.0315	Culvert	No	0	Yes	11.27	1.1 RND	PCC	1.37	1.37	38.02	No	1.10	2.60	5.00
994629	Southwest	SR 503	50.01	Unnamed	Lewis R	27.0310	Culvert	No	0	Yes	11.86	1.1 RND	CST	0.61	0.61	46.21	No	1.50	0.00	4.00
994389	Southwest	SR 503 ROV	39.41	Unnamed	Jim Cr	27	Culvert	No	0	Yes	3.78	1.1 RND	PCC	0.61	0.61	19.00	No	0.00	0.00	3.00
991968	Southwest	SR 504	2.49	Unnamed	Salmon Cr	26	Culvert	No	0	Yes	4.07	1.1 RND	CAL	0.80	0.80	42.20	No	0.00	5.00	4.00
991970	Southwest	SR 504	2.73	Unnamed	Salmon Cr	26	Culvert	No	0	Yes	7.69	1.1 RND	CAL	0.60	0.60	23.67	No	0.00	3.60	2.00
992015	Southwest	SR 504	2.76	Unnamed	Salmon Cr	26	Culvert	No	0	Yes	7.41	1.1 RND	CAL	0.60	0.60	24.60	No	0.10	9.30	1.50
991669	Southwest	SR 504	3.17	Unnamed	Salmon Cr	26	Culvert	No	33	Yes	12.22	1.1 RND	CAL	0.80	0.80	33.47	No	0.00	2.30	4.00
992019	Southwest	SR 504	4.55	Unnamed	Salmon Cr	26	Culvert	No	0	No	2.92	2.2 RND	CST	0.75	0.75	27.63	No	0.73	2.60	4.00
992019	Southwest	SR 504	4.55	Unnamed	Salmon Cr	26	Culvert	No	0	No	2.92	2.2 RND	CST	0.75	0.75	27.63	No	0.73	2.60	4.00
991634	Southwest	SR 504	17.00	Unnamed	NF Toulte R	26.0320	Culvert	No	0	Yes	13.82	1.1 RND	CST	1.37	1.37	20.42	No	2.53	1.00	0.75
992028	Southwest	SR 504	17.60	Unnamed	NF Toulte R	26	Culvert	No	0	Yes	9.29	1.1 RND	PCC	1.22	1.22	54.96	No	0.00	1.90	7.00
992068	Southwest	SR 504	22.21	Unnamed	NF Toulte R	26	Culvert	No	0	No	6.35	1.1 RND	CST	0.75	0.75	98.12	No	0.00	5.20	19.04
992074	Southwest	SR 504	23.58	Unnamed	NF Toulte R	26	Culvert	No	0	Yes	6.35	1.1 RND	CST	1.60	1.60	68.63	No	0.00	10.00	13.00
992244	Southwest	SR 505	0.16	Unnamed	Olequa Cr	26	Culvert	No	0	Yes	9.11	1.1 BOX	CPC	0.95	1.54	288.00	No	2.50	0.00	2.00
992246	Southwest	SR 505	0.26	Unnamed	Unnamed to Olequa Cr	26	Culvert	No	0	Yes	5.96	1.1 RND	CST	0.90	0.90	29.49	No	0.00	5.50	2.00

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WSDOT Fish Passage Barriers Invenioried as of March 2006

Site Id	WSDOT District	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	Fishway attached to the Feature	% Fish Pass	Significant Reach (>200 m)	Culvert No.	Shape	Material	Span (m)	Rise (m)	Length (m)	Bed Material Present	Water Surface Difference Drop (m)	Road Fill Depth (m)
991047	Southwest	SR 505	19.20	Unnamed	Unnamed to NF Tottle R	26	Culvert	No	67	Yes	10.59	1.1 RND	CST	0.45	0.45	19.86	Unk	0.00	0.40
991685	Southwest	SR 506	2.77	Unnamed	Stillwater Cr	26.0429A	Culvert	No	0	Yes	8.16	1.2 RND	PCC	1.07	1.07	31.51	No	0.30	2.98
991685	Southwest	SR 506	2.77	Unnamed	Stillwater Cr	26.0429A	Culvert	No	0	Yes	8.16	2.2 RND	PCC	1.07	1.07	29.61	No	0.19	3.51
992287	Southwest	SR 506	2.98	Unnamed	Stillwater Cr	26	Culvert	No	0	Yes		1.1 RND	PCC	0.75	0.75	22.51	Unk	0.00	2.75
992290	Southwest	SR 506	5.41	Unnamed	Stillwater Cr	26	Culvert	No	67	Yes		1.1 RND	PCC	1.22	1.22	31.00	No	0.00	0.51
991432	Southwest	SR 506	7.68	Unnamed	Cowlitz R	26	Culvert	No	0	Yes	11.26	1.1 RND	OTH	0.78	0.78	33.41	No	0.16	8.26
994954	Southwest	SR 508	0.53	Allen Cr	Newaukum R	23.0883	Culvert	No	67	Yes		1.1 RND	PCC	0.91	0.91	24.95	No	0.00	1.00
994955	Southwest	SR 508	0.64	Unnamed	Allen Cr	23	Culvert	No	67	Yes		1.1 RND	PCC	0.61	0.61	22.93	No	0.00	0.60
994958	Southwest	SR 508	1.66	Unnamed	Unnamed Allen Cr trib	23	Culvert	No	67	Yes		1.1 RND	PCC	0.76	0.76	16.38	No	0.00	2.60
994959	Southwest	SR 508	1.85	Unnamed	Unnamed Allen Cr trib	23	Culvert	No	0	Yes		1.1 RND	PCC	0.91	0.91	25.04	No	0.17	1.40
991755	Southwest	SR 508	3.50	Unnamed	SF Newaukum R	23	Culvert	No	67	Yes		1.1 BOX	CPC	1.65	0.91	10.54	No	0.00	1.10
992277	Southwest	SR 508	4.26	Unnamed	SF Newaukum R	23	Culvert	No	33	Yes		1.1 RND	PCC	0.91	0.91	12.42	No	0.21	1.28
994966	Southwest	SR 508	4.70	Unnamed	SF Newaukum R	23	Culvert	No	33	Yes		1.1 RND	PCC	0.46	0.46	18.06	No	0.00	2.70
994967	Southwest	SR 508	5.75	Unnamed	SF Newaukum R	23	Culvert	No	67	Yes		1.1 RND	PCC	0.91	0.91	13.34	No	0.00	1.20
991293	Southwest	SR 508	6.78	Unnamed	SF Newaukum R	23	Culvert	No	67	Yes		1.1 RND	PCC	0.61	0.61	14.67	No	0.00	0.70
991293	Southwest	SR 508	6.78	Unnamed	SF Newaukum R	23	Culvert	No	67	Yes		1.1 RND	PCC	0.61	0.61	14.67	No	0.00	0.70
994969	Southwest	SR 508	8.88	Unnamed	SF Newaukum R	23	Culvert	No	67	Yes		1.2 RND	PCC	0.61	0.61	15.16	No	0.00	0.30
994969	Southwest	SR 508	8.88	Unnamed	SF Newaukum R	23	Culvert	No	67	Yes		1.2 RND	PCC	0.61	0.61	15.16	No	0.00	0.30
994971	Southwest	SR 508	11.27	Unnamed	SF Newaukum R	23	Culvert	No	67	Yes		1.1 RND	CST	0.61	0.61	16.31	No	0.00	0.50
991289	Southwest	SR 508	12.66	Unnamed	SF Newaukum R	23	Culvert	No	67	Yes		1.1 RND	PCC	0.91	0.91	20.03	No	0.00	1.50
991290	Southwest	SR 508	15.10	Unnamed	Kearney Cr	23	Culvert	No	33	Yes		1.1 RND	PCC	0.91	0.91	15.20	No	0.00	1.10
994976	Southwest	SR 508	15.42	Unnamed	Unnamed Kearney Cr trib	23	Culvert	No	33	Yes		1.1 RND	PCC	0.61	0.61	15.48	No	0.00	5.20
991296	Southwest	SR 508	15.85	Unnamed	Unnamed Kearney Cr trib	23	Culvert	No	67	Yes		1.1 RND	PCC	0.91	0.91	15.54	No	0.12	4.00
994979	Southwest	SR 508	16.50	Unnamed	Unnamed Stowell Cr trib	23	Culvert	No	67	Yes		1.1 RND	PCC	0.76	0.76	14.07	No	0.00	1.30
994981	Southwest	SR 508	16.99	Unnamed	Unnamed Stowell Cr trib	23	Culvert	No	67	Yes		1.1 RND	PCC	0.61	0.61	12.62	No	0.00	1.90
991291	Southwest	SR 508	17.06	Unnamed	Stowell Cr	23	Culvert	No	67	Yes		1.1 RND	PCC	1.22	1.22	14.71	No	0.00	2.00
994463	Southwest	SR 508	17.55	Stowell Cr	Kearney Cr	23.0916	Culvert	No	67	Yes		1.1 RND	PCC	0.91	0.91	15.07	No	0.00	2.80
992541	Southwest	SR 508	18.32	Unnamed	Mill Cr	26	Culvert	No	33	Yes	16.04	1.1 RND	PCC	0.73	0.73	13.14	No	0.15	3.50
991433	Southwest	SR 508	18.95	Unnamed	Tilton R	26.0560x	Culvert	No	67	Yes	1.67	1.1 RND	CPC	0.60	0.60	16.50	Unk	0.00	0.05
992550	Southwest	SR 508	20.37	Shermans Cr	Tilton R	26.0564	Culvert	No	0	Yes	3.24	1.1 RND	PCC	0.91	0.91	14.63	Unk	1.25	4.50
992551	Southwest	SR 508	22.50	Unnamed	Tilton R	26.0566	Culvert	No	0	No		1.1 RND	CST	1.80	1.80	55.93	No	0.44	15.30
992552	Southwest	SR 508	23.00	Unnamed	Unnamed	26.0567x	Culvert	No	0	No		1.1 RND	PCC	0.90	0.90	10.19	No	1.40	15.00
992553	Southwest	SR 508	23.16	Unnamed	Tilton R	26.0560x	Culvert	No	0	No		1.1 RND	PCC	0.60	0.60	20.36	No	0.95	0.12
992555	Southwest	SR 508	23.45	Unnamed	Tilton R	26.0560x	Culvert	No	0	No		1.1 RND	PCC	0.62	0.62	19.67	No	0.85	0.14
992573	Southwest	SR 508	23.89	Unnamed	Tilton R	26.0560x	Culvert	No	33	Yes	4.7	1.1 BOX	CPC	1.68	1.82	24.60	No	0.55	7.11
992577	Southwest	SR 508	23.99	Unnamed	Tilton R	26.0560x	Culvert	No	0	No		1.1 RND	PCC	0.90	0.90	15.07	No	0.00	0.04
991435	Southwest	SR 508	30.01	Unnamed	Tilton R	26	Culvert	No	0	No		1.1 RND	PCC	1.08	1.08	13.64	No	2.50	0.09
990774	Southwest	SR 6	31.80	Unnamed	Tilton R	26	Culvert	No	0	Yes	10.6	1.1 RND	PCC	1.07	1.07	19.51	Unk	0.98	2.00
990774	Southwest	SR 6	0.73	Case Pond	Ellis Sl	24	Culvert	No	0	Yes	15.23	1.1 RND	CAL	0.75	0.75	19.27	No	2.99	5.20
991697	Southwest	SR 6	1.85	Unnamed	Willapa R	24	Culvert	No	0	No		1.1 RND	PCC	0.60	0.60	30.48	No	0.98	2.00
991355	Southwest	SR 6	2.96	Unnamed	Willapa R	24	Culvert	No	67	Yes	6.39	1.1 RND	PCC	0.75	0.75	17.31	No	0.00	1.70
990802	Southwest	SR 6	4.82	Unnamed	Willapa R	24	Culvert	No	33	No		1.1 RND	PCC	1.05	1.05	17.38	No	0.04	1.73
990805	Southwest	SR 6	5.37	Unnamed	Willapa R	24	Culvert	No	0	Yes	25.91	1.1 ELL	PCC	1.02	0.84	47.97	No	0.00	1.10
990813	Southwest	SR 6	8.32	Unnamed	Willapa R	24	Culvert	No	67	Yes	11.33	1.1 RND	PCC	0.90	0.90	23.89	Unk	0.00	1.75
990816	Southwest	SR 6	9.83	Unnamed	Unnamed to Willapa R	24	Culvert	No	33	Yes	12.84	1.1 RND	PCC	0.60	0.60	15.68	No	0.00	1.28
990817	Southwest	SR 6	9.92	Unnamed	Willapa R	24	Culvert	No	67	Yes	4.09	1.1 RND	PCC	0.75	0.75	13.52	No	0.00	1.85

Appendix I

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WSDOT Fish Passage Barriers Inventoried as of March 2006

WSDOT Site Id	District	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	Fishway attached to the Feature	% Fish Pass	Significant Reach (≥200 m)	Culvert No.	Shape	Material	Span (m)	Rise (m)	Length (m)	Bed Material Present	Water Surface Difference Drop (m)	Road Fill Depth (m)
990782	Southwest	SR 6	11.69	Unnamed	Willapa R	24	Culvert	No	0	No		1.1 RND	PCC	0.60	0.60	39.08	No	0.00	5.30
990790	Southwest	SR 6	17.36	Unnamed	Fern Cr to Willapa R	24	Culvert	No	33	Yes	8.27	1.1 BOX	CPC	1.08	1.08	16.60	No	0.00	0.18
990797	Southwest	SR 6	19.96	Unnamed	Fern Cr	24	Culvert	No	0	No		1.1 RND	PCC	0.60	0.60	38.20	No	0.00	3.43
990798	Southwest	SR 6	20.56	Unnamed	Fern Cr	24	Culvert	No	0	No		1.1 RND	PCC	0.60	0.60	38.20	No	0.00	3.43
992424	Southwest	SR 6	21.27	Unnamed	Fern Cr	24	Culvert	No	0	No		1.1 RND	PCC	0.60	0.60	38.20	No	0.00	3.43
990736	Southwest	SR 6	22.94	Unnamed	Salmon Cr	23	Culvert	No	33	Yes	8.08	1.1 RND	PCC	0.62	0.62	84.03	No	0.03	2.90
990737	Southwest	SR 6	23.49	Unnamed	Rock Cr	23	Culvert	No	67	Yes		1.1 RND	PCC	0.61	0.61	21.15	No	0.00	2.40
991654	Southwest	SR 6	24.30	Unnamed	Rock Cr	23	Culvert	No	0	No		1.1 RND	PCC	0.76	0.76	21.64	No	0.00	5.50
990141	Southwest	SR 6	24.63	Unnamed	Rock Cr	23	Culvert	No	33	No		1.1 RND	PCC	0.61	0.61	27.28	No	0.00	7.30
990738	Southwest	SR 6	25.24	Unnamed	Rock Cr	23	Culvert	No	33	Yes		1.1 RND	PCC	0.61	0.61	27.28	No	0.00	3.40
990740	Southwest	SR 6	26.36	Unnamed	Rock Cr	23	Culvert	No	33	Yes		1.1 RND	PCC	0.61	0.61	27.28	No	0.00	3.90
990473	Southwest	SR 6	27.49	Water Mill Cr	Rock Cr	23	Culvert	No	67	Yes		1.1 BOX	CPC	1.22	1.22	27.28	No	0.00	4.90
990741	Southwest	SR 6	29.00	Unnamed	Chehalis R	23	Culvert	No	67	Yes		1.1 RND	PCC	0.61	0.61	32.62	No	0.00	4.90
990244	Southwest	SR 6	30.87	Unnamed	Chehalis R	23	Culvert	No	33	Yes		1.1 RND	PCC	0.61	0.61	14.12	No	0.00	2.70
990745	Southwest	SR 6	31.00	Unnamed	Chehalis R	23	Culvert	No	67	Yes		1.1 RND	PCC	0.91	0.91	16.96	No	0.00	1.00
990749	Southwest	SR 6	32.00	Unnamed	Chehalis R	23	Culvert	No	67	Yes		1.1 RND	PCC	0.61	0.61	14.38	No	0.00	1.50
990751	Southwest	SR 6	33.56	Unnamed	Unnamed Chehalis R trib	23	Culvert	No	67	Yes		1.2 RND	CAL	0.91	0.91	15.18	No	0.00	1.20
990753	Southwest	SR 6	34.00	Unnamed	Unnamed Chehalis R trib	23	Culvert	Yes	33	Unknown		1.1 RND	PCC	0.61	0.61	12.54	No	0.00	2.60
990756	Southwest	SR 6	35.08	Unnamed	Chehalis R	23	Culvert	No	0	Yes		1.1 RND	CAL	0.61	0.61	19.81	No	0.58	1.00
991542	Southwest	SR 6	35.10	Unnamed	Chehalis R	23	Culvert	No	0	Yes		1.1 RND	CST	0.91	0.91	15.24	Unk	0.40	2.00
990757	Southwest	SR 6	35.42	Unnamed	Chehalis R	23	Culvert	No	67	Yes		1.1 RND	PCC	0.61	0.61	15.90	No	0.00	1.00
990758	Southwest	SR 6	35.85	Unnamed	Chehalis R	23	Culvert	No	0	Yes		1.1 RND	PCC	0.91	0.91	26.66	No	0.00	8.30
990423	Southwest	SR 6	36.74	Unnamed	Hope Cr	23	Culvert	No	0	Yes		1.1 RND	CST	0.46	0.46	20.18	No	0.13	2.40
990534	Southwest	SR 6	40.53	Unnamed	Chehalis R	23	Culvert	No	67	Yes		1.1 RND	PCC	0.61	0.61	15.29	No	0.16	0.40
990760	Southwest	SR 6	41.22	Davis Cr	Chehalis R	23	Culvert	No	33	Yes		1.1 BOX	PCC	1.83	1.83	26.32	No	0.00	1.20
990761	Southwest	SR 6	41.70	Unnamed	Chehalis R	23	Culvert	No	67	Yes		1.1 RND	PCC	0.61	0.61	14.04	No	0.00	1.50
990764	Southwest	SR 6	42.38	Unnamed	SF Chehalis R trib	23	Culvert	No	67	No		1.1 RND	PCC	1.07	0.91	20.44	No	0.00	2.00
991221	Southwest	SR 6	43.61	Unnamed	Chehalis R	23	Culvert	No	0	Yes		1.1 OTH	CST	0.76	0.76	45.50	No	1.00	8.80
991544	Southwest	SR 6	46.39	Unnamed	Chehalis R	23	Culvert	No	67	Yes		1.1 RND	SPS	2.06	2.06	42.17	No	0.00	0.30
990825	Southwest	SR 7	2.73	Unnamed	Tilton R	26	Culvert	No	33	Yes		1.1 RND	PCC	0.61	0.61	16.65	No	0.00	-0.90
990826	Southwest	SR 7	3.36	Unnamed	Tilton R	26	Culvert	No	0	Yes	11.95	1.1 RND	PCC	0.90	0.90	17.50	No	0.55	1.25
990831	Southwest	SR 7	5.50	Unnamed	Tilton R	26	Culvert	No	0	Yes	15.13	2.2 BOX	CPC	1.52	1.52	32.42	No	0.12	3.80
990831	Southwest	SR 7	5.50	Unnamed	Tilton R	26	Culvert	No	0	Yes	15.13	2.2 BOX	CPC	1.52	1.52	32.29	No	0.12	3.60
990832	Southwest	SR 7	5.64	Unnamed	Tilton R	26	Culvert	No	0	No		1.1 BOX	CPC	1.24	1.24	19.03	No	0.00	6.50
990833	Southwest	SR 7	6.91	Unnamed	Tilton R	26	Culvert	No	0	Yes	3.12	1.1 BOX	CPC	1.22	1.22	41.70	No	0.00	8.00
990836	Southwest	SR 7	7.36	Unnamed	Tilton R	26	Culvert	No	0	No		1.1 BOX	CPC	1.83	1.83	27.32	No	0.00	2.75
990840	Southwest	SR 7	8.18	Unnamed	Tilton R	26	Culvert	No	67	Yes		1.1 BOX	PCC	0.76	0.76	12.89	No	0.25	1.30
990841	Southwest	SR 7	8.89	Tilton R	Mayfield Lk	26	Culvert	No	0	Yes	4.41	1.1 BOX	CPC	1.54	0.93	18.16	No	0.55	0.70
990690	Southwest	SR 7	8.85	Unnamed	Roundtop Cr	11	Culvert	No	0	Yes		1.1 RND	PCC	0.91	0.91	34.75	No	0.00	1.50
990657	Southwest	SR 7	10.23	Unnamed	Summit Cr	11	Culvert	No	0	Yes		1.1 BOX	CPC	1.22	1.22	19.81	No	0.40	1.00
990691	Southwest	SR 7	10.48	Unnamed	Round Top Cr	11	Culvert	No	33	Yes		1.2 BOX	PCC	0.91	0.91	14.88	No	0.00	6.20
990691	Southwest	SR 7	10.48	Unnamed	Round Top Cr	11	Culvert	No	33	Yes		2.2 RND	PCC	0.76	0.76	16.69	No	0.00	3.10
990658	Southwest	SR 7	10.81	Unnamed	Roundtop Cr	11	Culvert	No	0	Yes		1.1 BOX	CPC	1.22	1.22	30.48	No	0.67	5.00
990661	Southwest	SR 7	11.10	Unnamed	Roundtop Cr	11	Culvert	No	67	Yes		1.1 RND	PCC	0.61	0.61	16.83	No	0.18	1.70

WSDOT Fish Passage Barriers Invented as of March 2006

Site Id	WSDOT District	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	Fishway attached to the Feature	% Fish Pass	Significant Reach (>200 m)	Culvert No.	Shape	Material	Span (m)	Rise (m)	Length (m)	Bed Material Present	Water Surface Difference Drop (m)	Road Fill Depth (m)
990662	Southwest	SR 7	11.20	Unnamed	Roundtop Cr	11	Culvert	No	33	Yes	8.86	1.1 BOX	PCC	0.91	0.91	10.67	No	0.49	4.00
990684	Southwest	SR 7	11.56	Coal Cr	Roundtop Cr	11	Culvert	No	67	Yes		1.1 BOX	PCC	1.52	0.91	12.19	No	0.27	3.00
990669	Southwest	SR 7	12.74	Unnamed	Roundtop Cr	11	Culvert	No	67	Yes		1.1 BOX	PCC	1.52	0.91	12.02	No	0.00	1.50
990670	Southwest	SR 7	12.80	Unnamed	Roundtop Cr	11	Culvert	No	33	Yes		1.1 RND	PCC	0.76	0.76	11.48	Yes	0.30	3.00
990671	Southwest	SR 7	12.90	Unnamed	Roundtop Cr	11	Culvert	No	67	No		1.1 RND	PCC	0.76	0.76	11.48	Yes	0.00	1.00
997602	Southwest	SR 7	14.81	Unnamed	East Cr	11	Culvert	No	67	Yes		1.1 RND	PCC	0.46	0.46	13.83	No	0.00	1.00
990674	Southwest	SR 7	15.92	Unnamed	East Cr	11	Culvert	No	67	Yes		1.1 RND	PCC	1.22	1.22	17.92	No	0.00	0.94
991388	Southwest	US 101	1.00	Unnamed	Columbia R	24.0047	Culvert	No	0	Yes	15.23	1.1 BOX	PCC	0.91	0.91	22.10	No	0.30	1.80
991359	Southwest	US 101	1.30	Unnamed	Columbia R	24.0045	Culvert	No	0	Yes	13	1.1 RND	PCC	0.61	0.61	27.11	No	0.61	1.22
992817	Southwest	US 101	1.62	Unnamed	Columbia R	24.0044	Culvert	No	0	Yes	4.86	1.1 RND	PCC	0.61	0.61	16.64	No	0.61	1.82
992818	Southwest	US 101	2.00	Unnamed	Columbia R	24.0042	Culvert	No	0	Yes	15.33	1.1 RND	PCC	0.91	0.91	19.43	No	0.18	0.06
992819	Southwest	US 101	2.29	Unnamed	Columbia R	24.0041	Culvert	No	0	Yes	12.32	1.1 RND	PCC	0.91	0.91	16.80	No	0.18	1.17
992820	Southwest	US 101	2.58	Unnamed	Columbia R	24	Culvert	No	0	Yes	17.99	1.1 RND	PCC	0.61	0.61	20.49	No	0.00	0.17
992821	Southwest	US 101	7.11	Chinook R	Columbia R	24	Culvert	No	33	Yes	25.25	3.3 BOX	PCC	2.40	2.55	25.02	No	0.00	0.17
992822	Southwest	US 101	7.11	Chinook R	Columbia R	24	Culvert	No	33	Yes		2.3 BOX	PCC	2.40	2.55	25.02	No	0.00	0.17
991308	Southwest	US 101	21.27	Unnamed	Willapa Bay	24.0679	Culvert	No	67	Yes	18.82	2.2 RND	PCC	0.91	0.91	19.24	Yes	0.00	1.50
992823	Southwest	US 101	21.27	Unnamed	Willapa Bay	24.0679	Culvert	No	67	Yes	18.82	1.2 RND	PCC	0.91	0.91	19.37	Yes	0.00	2.40
992836	Southwest	US 101	21.40	Unnamed	Willapa Bay	24.0680	Culvert	No	33	Yes	10.28	1.1 RND	PCC	0.91	0.91	22.96	No	0.00	2.00
992838	Southwest	US 101	22.12	Unnamed	Willapa Bay	24	Culvert	No	67	No		1.1 RND	PCC	0.60	0.60	16.93	No	0.00	3.30
992298	Southwest	US 101	23.31	Unnamed	Willapa Bay	24.0676	Culvert	No	33	Yes	10.01	1.1 RND	PCC	0.90	0.90	21.99	No	0.01	4.00
990176	Southwest	US 101	46.96	Hansen Cr	Willapa Bay	24.0403	Culvert	No	33	Yes	7.45	1.1 RND	PCC	0.92	0.92	61.96	No	0.00	3.32
990053	Southwest	US 101	61.15	Butte Cr	Smith Cr	24.0060	Culvert	No	33	Yes	19.38	1.1 BOX	PCC	1.83	1.83	31.23	No	0.40	0.67
991517	Southwest	US 101	61.17	Unnamed	Butte Cr	24	Culvert	No	33	Yes		1.1 RND	PCC	0.91	0.91	25.11	No	0.00	1.47
991320	Southwest	US 101	61.26	Unnamed	Smith Cr	24	Culvert	No	0	Yes	10.24	1.1 RND	PCC	0.61	0.61	22.25	No	0.40	1.12
991323	Southwest	US 101	64.36	Unnamed	Elkhorn Cr	24	Culvert	No	33	Yes	6.23	1.1 BOX	PCC	0.95	0.91	18.03	No	0.32	0.01
991426	Southwest	US 101	65.71	Unnamed	Lacamas Cr	26.0474	Culvert	No	33	Yes	12.03	1.1 BOX	PCC	0.92	0.92	22.00	No	0.32	0.37
992084	Southwest	US 12	72.45	Unnamed	Riffe Lk	26	Culvert	No	0	No		1.1 SQSH	SPS	1.65	1.05		Unk	0.00	0.75
992085	Southwest	US 12	90.71	Unnamed	Riffe Lk	26	Culvert	No	0	Yes	2.01	1.1 SQSH	SPS	1.90	1.45	31.32	No	0.20	5.30
992087	Southwest	US 12	91.25	Unnamed	Riffe Lk	26	Culvert	No	0	No		1.1 ELL	SPS	1.35	1.70		No	0.34	0.17
992090	Southwest	US 12	93.14	Unnamed	Unnamed to Riffe Lk	26	Culvert	No	0	No		1.1 ELL	SPS	1.55	1.90	127.50	No	0.36	0.15
992096	Southwest	US 12	93.80	Unnamed	Unnamed to Riffe Lk	26	Culvert	No	0	Yes	1.89	1.1 RND	GST	1.28	1.28	58.96	No	0.48	1.80
990190	Southwest	US 12	94.15	Highland Cr	Tilton R	26.0590	Culvert	No	0	Yes	7.26	1.1 ELL	SPS	1.68	2.00	65.60	No	1.42	6.00
990190	Southwest	US 12	95.75	Highland Cr	Tilton R	26.0590	Culvert	No	67	Yes	14.77	2.2 ELL	SPS	2.38	2.38	27.24	No	0.30	0.40
992099	Southwest	US 12	95.75	Highland Cr	Tilton R	26.0590	Culvert	No	67	Yes	14.77	1.2 ELL	SPS	2.38	2.38	28.91	No	0.35	0.40
992141	Southwest	US 12	95.98	Unnamed	Highland Cr	26	Culvert	No	67	Yes	5.21	1.1 ELL	CST	1.12	1.32	37.26	No	0.18	1.90
992141	Southwest	US 12	101.90	Unnamed	Unnamed to Riffe Lk	26	Culvert	No	0	No		1.1 RND	PCC	0.46	0.46	38.50	No	0.00	6.40
992113	Southwest	US 12	103.43	Unnamed	Riffe Lk	26	Culvert	No	0	Yes	3.01	1.1 RND	CST	0.90	0.90	93.30	No	0.00	3.00
990944	Southwest	US 12	103.98	Steffen Cr	Riffe Lk	26.0652	Culvert	No	67	Yes	8.63	1.1 SQSH	SPS	3.52	2.39	24.50	No	0.00	12.00
990401	Southwest	US 12	109.27	Steffen Cr	Rainey Cr	26.0654	Culvert	No	33	Yes	3.09	1.1 BOX	CPC	1.83	0.95	18.67	No	0.50	1.00
992150	Southwest	US 12	112.08	Unnamed	Kiona Cr	26	Culvert	No	0	Yes	1.61	1.1 RND	PCC	1.05	1.05	44.10	No	0.00	5.00
992151	Southwest	US 12	112.95	Oliver Cr	Kiona Cr	26.1025	Culvert	No	67	Yes	2.85	1.1 ARCH	CPC	5.89	3.02	31.20	No	0.00	0.00

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WSDOT Fish Passage Barriers Invented as of March 2006

Site Id	WSDOT District	Road	Mile Post	Stream	Tributary to	WRIA	Feature Type	Fishway attached to the Feature	% Fish Pass	Significant Reach (>200 m)	Culvert No. <sup>1</sup>	Shape	Material	Span (m)	Rise (m)	Length (m)	Bed Material Present	Water Surface Difference Drop (m)	Road Fill Depth (m)
990338	Southwest	US 12	113.73	Peters Cr	Kiona Cr	26.1023	Culvert	No	0	No	1.1	BOX	CPC	3.05	2.44	45.10	No	0.91	4.00
992227	Southwest	US 12	114.96	Miller Cr	Cowlitz R	26.1028	Culvert	No	33	Yes	11.67	1.1	ARCH	CPC	5.75	1.35	24.35	Yes	0.00
992282	Southwest	US 12	124.97	Burton Cr	Cowlitz R	26.1106	Culvert	No	0	Yes	3.31	1.1	SQSH	SPS	2.95	2.00	27.58	No	0.85
991880	Southwest	US 12	137.73	Unnamed	Cowlitz R	26	Culvert	No	0	No		1.1	RND	CST	0.90	0.90	38.51	No	0.20
991743	Southwest	US 12	149.98	Unnamed	Millridge Cr	26	Culvert	No	33	Yes	3.83	1.1	BOX	CPC	2.45	1.85	34.75	No	0.04
990845	Southwest	US 97	12.90	Unnamed	Little Klickitat R	30	Culvert	No	33	Yes		1.1	RND	SPS	2.74	2.74	69.00	No	0.48
990846	Southwest	US 97	13.39	Unnamed	Little Klickitat R	30	Culvert	No	67	No		1.1	BOX	PCC	1.83	1.83	34.14	No	1.96
990848	Southwest	US 97	18.40	Jenkins Cr	Little Klickitat R	30.0128	Culvert	No	33	Yes		1.1	BOX	CPC	2.45	1.83	35.24	No	0.36
990850	Southwest	US 97	21.16	W Prong L Klickitat R	Little Klickitat R	30.0135	Culvert	No	67	Yes	13.53	1.1	BOX	CPC	3.05	3.05	54.55	No	0.06
990052	Southwest	US 97	21.35	Butler Cr	EF Little Klickitat	30.0140	Culvert	No	67	Yes	8.39	1.1	RND	SPS	3.20	3.20	35.61	No	0.21
990851	Southwest	US 97	23.99	Dry Cr	Little Klickitat R	30.0147	Culvert	No	33	Yes		1.1	BOX	CPC	3.07	1.83	25.60	No	0.00
990853	Southwest	US 97	25.41	E Prong L Klickitat R	Klickitat R	30.0139	Culvert	No	0	Yes	4.91	1.1	BOX	CPC	1.85	1.23	28.37	No	0.50
990854	Southwest	US 97	25.59	Idlewild Canyon Cr	EF L Klickitat R	30.0152	Culvert	No	33	Yes	4.12	1.1	BOX	CPC	1.23	0.94	20.51	No	0.00
991955	Southwest	US 97	27.97	SF Shinando Cr	Shinando Cr	37.1104	Culvert	No	0	Yes	5.47	1.1	ELL	SPS	1.52	1.83	108.81	No	1.93
990857	Southwest	US 97	30.10	Shinando Cr	Satus Cr	37.1103	Culvert	No	0	Yes	11.76	1.1	BOX	PCC	1.52	1.83	76.20	Unk	0.40

There are 1538 WSDOT barrier features inventoried as of March 2006. The number of records in this spreadsheet exceeds 1538 due to the existence of multiple pipes at some crossings, referred in this appendix as Culvert Numbers (see explanation below).

<sup>1</sup> The culvert number identifies individual culverts at multiple stream crossings. Format X.Y, where X = specific culvert number, and Y = total number of culvert at a crossing. For example, in a triple culvert crossing, the first pipe would be 1.3, the second 2.3, and the third 3.3.

#### Culvert Material

PCC - precast concrete  
 CST - corrugated steel  
 SST - smooth steel  
 CAL - Corrugated aluminum  
 SPS - structural plate steel  
 PVC - plastic  
 TMB - timber  
 MRY - masonry  
 OTH - other  
 SPA - structural plate aluminum  
 CPC - cast in place concrete

#### Culvert Shape:

ARCH - bottomless arch  
 SQSH - squash  
 RND - round  
 BOX - rectangular  
 ELL - ellipse  
 OTH - other